BRIAN MARKS

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SKILLS

Computer Science and Programming

- Programming in Python, PHP, Perl, Ksh, Awk, C#, C++, Java, MATLAB
- Database design, normalization, and queries in MySQL, MSSQL, PGSQL
- Game programming, design, and AI in XNA using C#
- Agile software engineering with scrum methodology
- Cryptographic techniques using Crypto++ and Python's cryptography library
- Management and tool design in ClearCase environment
- Basic Android app design in Java

Projects

- PacMan AI using tree search, optimization, as well as machine learning
- Web-based online match-making and compatibility website for video gamers (available soon)
- Cryptographic tools to use frequency analysis to decrypt cipher texts similar to WEP
- 2D platforming game with non-deterministic boss AI called 'Acid Island'
- Social networking site called 'Wildbook' for outdoor events and activities
- Block file system using Lind-fuse and RePy

EXPERIENCE

June 2015 – Present

Software Development Environment Intern, *Alcatel-Lucent*

· Developed and maintained Unix and Windows utilities to assist developers working on LTE features

· Designed and developed several tools using Perl, Ksh, and Awk to sift through ClearCase data to develop statistics of usage for Views and Vobs

· Designed and developed a web site using PHP, JavaScript, and HTML to create and display custom pivoted reports

· Designed and developed a Python application to visualize GNU Makefiles in a graphical form

June 2013 – December 2014

Technical Consultant, *Ford Foundation*

· Developed small scripts as well as medium sized applications to assist in server management, application deployment, and report generating

· Developed and maintained database systems and Microsoft servers

· Managed various security software such as Bit9, CarbonBlack, and Symantec Antivirus

September 2010 – June 2012

Help Desk Support, *NYC Department of Education*

· Provided technical support to various network, hardware, and software related issues

EDUCATION

May 2016

Bachelors in Computer Science | Minors in Physics and Mathematics, *NYU Polytechnic School of Engineering* – GPA: 3.75

June 2012

Advanced Regents Diploma with Honors, *Herbert H. Lehman High School*